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Terms	Documents
flavanone-7-O-glucoside-2-O-rhamnosyl-transferase	0

Database: US Patents Full-Text Database
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Search:

L5

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result set*DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=OR*

<u>L5</u>	flavanone-7-O-glucoside-2-O-rhamnosyl-transferase	0	<u>L5</u>
<u>L4</u>	flavanone near5 rhamnosyl adj transferase	0	<u>L4</u>
<u>L3</u>	L2 and flavanone	5	<u>L3</u>
<u>L2</u>	L1 and plant	8	<u>L2</u>
<u>L1</u>	rhamnosyl adj transferase	12	<u>L1</u>

END OF SEARCH HISTORY

NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)
now available on STN

NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded

NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded

NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced

NEWS 23 Sep 03 JAPIO has been reloaded and enhanced

NEWS 24 Sep 16 Experimental properties added to the REGISTRY file

NEWS 25 Sep 16 Indexing added to some pre-1967 records in CA/CAPLUS

NEWS 26 Sep 16 CA Section Thesaurus available in CAPLUS and CA

NEWS 27 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985

NEWS 28 Oct 21 EVENTLINE has been reloaded

NEWS 29 Oct 24 BEILSTEIN adds new search fields

NEWS 30 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN

NEWS 31 Oct 25 MEDLINE SDI run of October 8, 2002

NEWS 32 Nov 18 DKILIT has been renamed APOLLIT

NEWS EXPRESS October 14 CURRENT WINDOWS VERSION IS V6.01,
CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),
AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002

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NEWS WWW CAS World Wide Web Site (general information)

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FILE 'CAPLUS' ENTERED AT 18:53:40 ON 21 NOV 2002

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=> s lactobacillus and rhamnosyl(w)transferase

L1 1 LACTOBACILLUS AND RHAMNOSYL(W) TRANSFERASE

=> d l1 1

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS

AN 2000:513780 CAPLUS

DN 133:130794

TI Protein and cDNA sequences of ***rhamnosyl*** ***transferase***
gene and uses thereof

IN Gressel, Jonathan; Eyal, Yoram; Fluhr, Robert

PA Yeda Research and Development Co. Ltd., Israel; State of Israel - Ministry
of Agriculture

SO PCT Int. Appl., 48 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000043490	A2	20000727	WO 2000-IL38	20000120
	WO 2000043490	A3	20000928		
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PRAI	IL 1999-128193	A	19990122		

=> s rhamnosyl(w)transferase and saccharomyces

L2 1 RHAMNOSYL(W) TRANSFERASE AND SACCHAROMYCES

=> d l2 1

L2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS

AN 2000:513780 CAPLUS

DN 133:130794

TI Protein and cDNA sequences of ***rhamnosyl*** ***transferase***
gene and uses thereof

IN Gressel, Jonathan; Eyal, Yoram; Fluhr, Robert

PA Yeda Research and Development Co. Ltd., Israel; State of Israel - Ministry
of Agriculture

SO PCT Int. Appl., 48 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000043490	A2	20000727	WO 2000-IL38	20000120

WO 2000043490 A3 20000928

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI IL 1999-128193 A 19990122

=> s rhamnosyl(w)transferase and microorganism

L3 6 RHAMNOSYL(W) TRANSFERASE AND MICROORGANISM

=> duplicate remove l3

DUPLICATE PREFERENCE IS 'BIOSIS, CAPLUS'

KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n

PROCESSING COMPLETED FOR L3

L4 6 DUPLICATE REMOVE L3 (0 DUPLICATES REMOVED)

=> d l4 1-6 ti

L4 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2002 ACS

TI Protein and cDNA sequences of ***rhamnosyl*** ***transferase***
gene and uses thereof

L4 ANSWER 2 OF 6 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

TI Cloning and functional characterization of a 30 kb gene locus required for
lipopolysaccharide biosynthesis in Legionella pneumophila.

L4 ANSWER 3 OF 6 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

TI Selection and partial characterization of a Pseudomonas aeruginosa
mono-rhamnolipid deficient mutant.

L4 ANSWER 4 OF 6 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

TI Three novel ***rhamnosyl*** ***transferases*** involved in the
assembly of Pseudomonas aeruginosa A-band polysaccharide.

L4 ANSWER 5 OF 6 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

TI Glycosyl transferases of O-antigen biosynthesis in Salmonella enterica:
Identification and characterization of transferase genes of groups B, C2,
and E1.

L4 ANSWER 6 OF 6 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

TI The Escherichia coli K-12 "wild types" W3110 and MG1655 have an rph
frameshift mutation that leads to pyrimidine starvation due to low pyrE
expression levels.

=> d l4 5

L4 ANSWER 5 OF 6 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

AN 1993:342544 BIOSIS

DN PREV199396039544

TI Glycosyl transferases of O-antigen biosynthesis in Salmonella enterica:

Identification and characterization of transferase genes of groups B, C2, and E1.

AU Liu, Dan; Haase, Antje M.; Lindqvist, Lennart; Lindberg, Alf A.; Reeves, Peter R. (1)
CS (1) Dep. Microbiol., University Sydney, Sydney, New South Wales 2006 Australia
SO Journal of Bacteriology, (1993) Vol. 175, No. 11, pp. 3408-3413.
ISSN: 0021-9193.
DT Article
LA English

=> d 14 4 ibib ab

L4 ANSWER 4 OF 6 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 1997:281946 BIOSIS
DOCUMENT NUMBER: PREV199799581149
TITLE: Three novel ***rhamnosyl*** ***transferases***
involved in the assembly of Pseudomonas aeruginosa A-band
polysaccharide.
AUTHOR(S): Rocchetta, H. L.; Pacan, J. C.; Lam, J. S.
CORPORATE SOURCE: Univ. Guelph, Guelph, ON Canada
SOURCE: Abstracts of the General Meeting of the American Society
for Microbiology, (1997) Vol. 97, No. 0, pp. 65.
Meeting Info.: 97th General Meeting of the American Society
for Microbiology Miami Beach, Florida, USA May 4-8, 1997
ISSN: 1060-2011.
DOCUMENT TYPE: Conference; Abstract; Conference
LANGUAGE: English

=> s flavanone and glucoside and rhamnosyl(w)transferase

L5 4 FLAVANONE AND GLUCOSIDE AND RHAMNOSYL(W) TRANSFERASE

=> d 15 1-4 ibib ab

L5 ANSWER 1 OF 4 AGRICOLA
ACCESSION NUMBER: 90:35392 AGRICOLA
DOCUMENT NUMBER: IND90018006
TITLE: ***Flavanone*** glycoside biosynthesis in citrus.
Chalcone synthase, UDP-glucose: ***flavanone***
-7-O-glucosyl-transferase and - ***rhamnosyl*** -
transferase activities in cell-free extracts.
AUTHOR(S): Lewinsohn, E.; Britsch, L.; Mazur, Y.; Gressel, J.
CORPORATE SOURCE: Washington State University, Pullman, WA
AVAILABILITY: DNAL (450 P692)
SOURCE: Plant physiology, Dec 1989. Vol. 91, No. 4. p.
1323-1328 ill
Publisher: Rockville, Md. : American Society of Plant
Physiologists.
CODEN: PLPHAY; ISSN: 0032-0889
NOTE: Includes references.
DOCUMENT TYPE: Article
FILE SEGMENT: U.S. Imprints not USDA, Experiment or Extension
LANGUAGE: English
AB Previous indirect evidence suggested that the biosynthesis of flavonoids
in Citrus may not proceed via the usual chalcone synthase reaction and

that glycosylation occurs during chalcone formation and not afterward, as has been reported in other species. We detected chalcone-synthase and UDP-glucose: ***flavanone*** -7-O-glucosyl-transferase activities in cell-free extracts of Citrus. The glucosylated ***flavanone*** was further rhamnosylated when exogenous UDP-glucose and NADPH were added to the extract. Chalcone-synthase activity was detected in cell-free extracts derived from young leaves and fruits. Young fruits (2 millimeter diameter) had the highest chalcone synthase activity. UDP-glucose: ***flavanone*** -7-O-glucosyl-transferase activity was measured in cell-free extracts derived from young leaves and fruits of Citrus mitis and Citrus maxima. The highest UDP-glucose: ***flavanone*** -7-O-glucosyl-transferase activity was found in young C. maxima leaves. These data indicate that Citrus contains a flavonoid pathway similar to that studied in other species.

L5 ANSWER 2 OF 4 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 ACCESSION NUMBER: 1990:48336 BIOSIS
 DOCUMENT NUMBER: BA89:25700
 TITLE: PRODUCTION OF ***FLAVANONE*** NEOHESPERIDOSIDES IN CITRUS EMBRYOS.
 AUTHOR(S): GAVISH H; LEWINSOHN E; VARDI A; FLUHR R
 CORPORATE SOURCE: DEP. PLANT GENETICS, WEIZMANN INST. SCI., REHOVOT 76100, ISRAEL.
 SOURCE: PLANT CELL REP, (1989) 8 (7), 391-394.
 CODEN: PCRPD8. ISSN: 0721-7714.
 FILE SEGMENT: BA; OLD
 LANGUAGE: English

AB Grapefruit (Citrus paradisi) tissue cultures were examined for qualitative and quantitative changes in ***flavanone*** -neohesperidoside content during somatic embryogenesis. Embryos cultured in vitro contain naringin and a ***rhamnosyl*** - ***transferase*** activity which is capable of rhamnosylating position 2 on the ***flavanone*** ***glucosides***. Rhamnosylation is carried out only in embryos cultivated on solid medium but not in embryos grown in suspension cell cultures.

L5 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2000:513780 CAPLUS
 DOCUMENT NUMBER: 133:130794
 TITLE: Protein and cDNA sequences of ***rhamnosyl*** ***transferase*** gene and uses thereof
 INVENTOR(S): Gressel, Jonathan; Eyal, Yoram; Fluhr, Robert
 PATENT ASSIGNEE(S): Yeda Research and Development Co. Ltd., Israel; State of Israel - Ministry of Agriculture
 SOURCE: PCT Int. Appl., 48 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000043490	A2	20000727	WO 2000-IL38	20000120
WO 2000043490	A3	20000928		

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,

MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

IL 1999-128193 A 19990122

AB The invention provides protein and cDNA sequences of a novel Citrus
rhamnosyl ***transferase*** gene responsible for producing
the

bitter flavanoids naringin and neohesperidin, which encodes a protein
having a ***flavanone*** -7-O- ***glucoside*** -2"-O-

rhamnosyl - ***transferase*** catalytic activity. The
invention

also relates to the uses of ***rhamnosyl*** ***transferase*** for
modifying a rhamnose-1-6-glucose linkage of a chem. compd. to a
rhamnose-1-2-glucose linkage. The invention further relates to
genetically modified plants of the Citrus genus including sense or
antisense construct which comprises the ***rhamnosyl***

transferase gene or a gene knock-out integrated construct to
provide less bitter grapefruits, pomelos and other citrus contg. bitter
flavanoid glycosides.

L5 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1990:18915 CAPLUS

DOCUMENT NUMBER: 112:18915

TITLE: Production of ***flavanone*** neohesperidosides in
Citrus embryos

AUTHOR(S): Gavish, Hanna; Lewinsohn, Efraim; Vardi, Aliza; Fluhr,
Robert

CORPORATE SOURCE: Dep. Plant Genet., Weizmann Inst. Sci., Rehovot,
76100, Israel

SOURCE: Plant Cell Reports (1989), 8(7), 391-4

CODEN: PCRPD8; ISSN: 0721-7714

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Grapefruit (Citrus paradisi) tissue cultures were examd. for qual. and
quant. changes in ***flavanone*** -neohesperidoside content during
somatic embryogenesis. Embryos cultured in vitro contain naringin and a
rhamnosyl - ***transferase*** activity which is capable of
rhamnosylating position 2 on the ***flavanone*** ***glucosides***.
Rhamnosylation is carried out only in embryos cultivated on solid medium,
but not in embryos grown in suspension cell cultures.

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